

**ABSTRACT OF THE DISCLOSURE**

A method and apparatus for reducing electrical noise in an electrical signal from a temperature feedback device to an induction heating system. The induction heating system has an electrical connector that is adapted to electrically couple a temperature feedback device to a system controller and to ground via a capacitor circuit. The capacitor circuit shunts electrical noise to ground but allows a temperature signal from the temperature feedback device to be received by the system controller. A shielded extension cable to electrically couple the temperature feedback device to an induction heating system may be used. The shielding of the extension cable is electrically coupled to ground.